AMENDMENTS TO THE CLAIMS

Listing of the claims:

Following is a listing of all claims in the present application, which listing supersedes all previously presented claims:

1. (Currently Amended) An input circuit for receiving a first input signal and for use with a first power supply and a second power supply that supplies a voltage of absolute value less than an absolute value of the first power supply, the input circuit comprising:

a first differential amplification circuit powered by the first power supply to receive and amplify the first input signal and generate a second input signal;

a level shift circuit powered by the first power supply to shift voltage of the second input signal and generate a shifted input signal, the level shift circuit including an output terminal; and

a second differential amplification circuit powered by the second power supply to amplify the shifted input signal and generate an amplified signal;

a current control circuit connected between the first power supply and the first differential amplification circuit to selectively switch the input circuit between an activated state and a standby state,[[;]] ~~and~~

wherein the level shift circuit further includes a first circuit for charging or discharging voltage at the output terminal of the level shift circuit so that voltage of the shifted input signal is less than or equal to the absolute value of the voltage of the second power supply when switched to the standby state.

2. (Original) The input circuit according to claim 1, wherein the first circuit includes a constantly activated transistor.

3. (Original) The input circuit according to claim 1, wherein the first circuit includes a transistor having a gate connected to the first power supply.

4. (Currently Amended) The input circuit according to claim 3, wherein the first differential amplification circuit includes ~~further comprising~~ a second circuit for charging or discharging a ~~the~~ voltage at an ~~the~~ output terminal of the first differential amplification circuit when switching to the standby state.

5. (Original) The input circuit according to claim 4, wherein the second circuit includes a constantly activated transistor.

6. (Original) The input circuit according to claim 4, wherein the second circuit includes a transistor having a gate connected to the first power supply.

7. (Previously Presented) The input circuit according to claim 1, wherein the level shift circuit further includes:

a level shift transistor having a drain connected to the first power supply and a gate for receiving the shifted input signal; and

a load circuit connected between the level shift transistor and the first circuit to adjust a level shift amount.

8. (Currently Amended) An input circuit for receiving a first functional block input signal and for use with first, second, third, and fourth power supplies, wherein the second power supply supplies a voltage of absolute value less than an absolute value of the first power supply, and the fourth power supply supplies a voltage of absolute value less than an absolute value of the third power supply, the input circuit comprising:

a first functional block including a first differential amplification circuit powered by the first power supply and the second power supply, the first differential amplification circuit receiving and amplifying the first functional block input signal to generate a second functional block input signal;

a second functional block including a level shift circuit powered by the first power supply and the second power supply to shift voltage of the second functional block input signal and generate a third functional block input signal, the level shift circuit including an output terminal;

a third functional block including a second differential amplification circuit powered by the third power supply and the fourth power supply, the second differential amplification circuit amplifying the third functional block input signal to generate an amplified signal; and

a first current control circuit connected between the first power supply and the first differential amplification circuit to selectively switch the input circuit between an activated state and a standby state,[[;]] ~~and~~

wherein the level shift circuit further includes a first circuit for charging or discharging voltage at the output terminal of the level shift circuit so that voltage of the

third functional block input signal is converged to a voltage between that of the third power supply and that of the fourth power supply.

9. (Original) The input circuit according to claim 8, wherein the absolute value of a potential difference between the first power supply and the second power supply is greater than the absolute value of a potential difference between the third power supply and the fourth power supply.

10. (Original) The input circuit according to claim 9, wherein each of the second and fourth power supplies is a ground power supply that charges or discharges the voltage at the output terminal of the level shift circuit when switching to the standby state.

11. (Original) input circuit according to claim 8, further comprising an additional circuit for charging or discharging the voltage at an output terminal of the first differential amplification circuit when switching to the standby state.

12. (Original) The input circuit according to claim 8, wherein the first and second differential amplification circuits and the level shift circuit each includes a transistor having a gate oxidized film, wherein the gate oxidized film of the transistor in the second differential amplification circuit is thinner than the gate oxidized films of the transistors in the first differential amplification circuit and the level shift circuit.

13. (Previously Presented) The input circuit according to claim 8, wherein the first and second differential amplification circuits and the level shift circuit each includes a transistor, wherein the withstand voltage of the transistor in the second differential amplification circuit is lower than the withstand voltage of the transistors in the first differential amplification circuit and the level shift circuit.

14. (Original) The input circuit according to claim 8, wherein the first current control circuit includes a transistor having a gate for receiving a current control signal that cuts the supply of power from the first power supply to the first differential amplification circuit when switching to the standby state.

15. (Original) The input circuit according to claim 14, wherein the first differential amplification circuit includes: a first pair of transistors, each having a type of conductivity differing from that of the transistor in the first current control circuit and having a gate for receiving the first functional block input signal; a load circuit connected between the transistors of the first pair and the first current control circuit; and a first current source configured by a transistor having a type of conductivity that is the same as that of the first pair of transistors and connected between the transistors of the first pair and the second power supply, wherein the transistor of the first current source has a gate supplied with voltage that constantly activates the transistor.

16. (Original) The input circuit according to claim 15, wherein the load circuit includes a current mirror circuit comprising a second pair of transistors, each being a transistor having a type of conductivity differing from that of the first pair of transistors.

17. (Original) The input circuit according to claim 15, wherein the load circuit includes a second pair of transistors, each having a type of conductivity differing from that of the first pair of transistors and having a gate and a drain, the gates of the second pairs of transistors being connected to the drains of the other ones of the second pair of transistors.

18. (Original) The input circuit according to claim 15, wherein the load circuit includes a pair of transistors, each having a type of conductivity differing from that of the first pair of transistors and having a gate connected to the second power supply.

19. (Original) The input circuit according to claim 15, wherein the load circuit includes a pair of resistors, each being connected in series to one of the first pair of transistors.

20. (Original) The input circuit according to claim 14, wherein the first differential amplification circuit includes: a first pair of transistors, each having a type of conductivity that is the same as that of the transistor in the first current control circuit and having a gate for receiving the first functional block input signal; and a load circuit connected between the first pair of transistors and the second power supply.

21. (Original) The input circuit according to claim 20, wherein the first current control circuit functions as a current source of the first differential amplification circuit when the input circuit is in an activated state.

22. (Previously Presented) The input circuit according to claim 14, wherein the level shift circuit further includes:

a level shift transistor having a drain connected to the first power supply and a gate for receiving the second functional block input signal, wherein the first circuit includes a current source connected between the level shift transistor and the second power supply and the current source of the first circuit comprises:

a transistor having a type of conductivity that is the same as that of the level shift transistor, the transistor of the current source having a gate supplied with a voltage that constantly activates the transistor.

23. (Original) The input circuit according to claim 22, further comprising a second current control circuit connected between the level shift transistor and the first power supply, wherein the second current control circuit cuts the supply of power from the first power supply to the first level shift circuit when switching to the standby state.

24. (Original) The input circuit according to claim 23, wherein the second current control circuit includes a transistor having a type of conductivity that is the same as that of the transistor in the first current control circuit and of which is responsive to the current control signal.

25. (Original) The input circuit according to claim 22, further comprising a third current control circuit connected between the second power supply and a node between the first amplification circuit and the level shift circuit, wherein the third current control circuit charges or discharges voltage at an output terminal of the first differential amplification circuit when the first functional block input signal is not received.

26. (Currently Amended) The input circuit according to claim 25, wherein the first current control circuit includes a transistor, and the third current control circuit includes a transistor having a type of conductivity differing from that of the transistor of the first current control circuit, the transistor of the third current control circuit including a drain connected to the output terminal of the first differential amplification circuit and the gate of the level shift transistor, a source connected to the second power supply, and a gate for receiving the current control signal.

27. (Original) The input circuit according to claim 22, wherein the level shift circuit further includes a load circuit connected between the level shift transistor and the current source to adjust a level shift amount.

28. (Original) The input circuit according to claim 27, wherein the load circuit includes a diode-connected transistor.